No.



9600231

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TO ALL TO WHOM THESE PRESENTS SHALL COME?

Shalof Meiball AB

There has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE CHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR RITING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OF BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL CONFORM TO THE NUMBER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

PEA, FIELD

'Carneval'

In Jestimonn Thereof, I have hereunto set my hand and caused the seal of the Hant Inviety Frotection Office to be affixed at the City of Washington, D.C. this thirtieth day of January, in the year of our Lord two thousand one.

MASKO

ET SEQ

Acting Commissioner
Plant Variety Protection Office
Agricultural Warketing Service

Secretary of Agriculture

	RODUCE LOCALLY. Include form number and date			TOTAL ALLHOVED - DMR N
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INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed Exhibits A, B, C, E; (3) at least 2,500 viable untreated seeds, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in a public repository prior to issuance of a certificate; (4) check drawn on a U.S. bank for \$2,450 (\$300 filing fee and \$2,150 examination fee), payable to "Treasurer of the United States" (See Section 97.175 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 30 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Blvd., Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$300 for issuance of the Certificate.



Give:

16a.

Plant Variety Protection Office Telephone: (301) 504-5518

- the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified.
- Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences;
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 16c. Exhibit C forms are available from the PVPO for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 16e. Section 52(4) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. The applicant may be the actual breeder, the employee of the breeder, the owner through purchase or inheritance, etc.
- 17. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant may NOT reverse this affirmative decision after the variety has been sold and so labelled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See P.L. 103-349 for additional information.)
- 20. See Sections 41, 42, and 43 of the Act and Section 97.175 of the regulations for eligibility requirements.

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing change of ownership or assignment is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Section 97.130, 97.131, 97.175(h) of Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant should check the variety names proposed by contacting: See Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Washington, DC 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB No. 0581-0055), Washington, DC 20503.



Revised April 10/97

PVP Application No. 9600231 - CARNEVAL PEA

EXHIBIT A

- a) The variety was bred at Svalöf Weibull AB, Svalöv, Sweden. The original cross (Bohatyr x Rigel) was done in 1981. The breeding method was a pedigree method. Selection criteria (2) were for semi-leafless plants; round, yellow seeds; maturity; stiff straw and high yield. The variety originates from a single plant selection in F₄.
- b) Carneval has been observed to be uniform and stable for 10 generations. Carneval was entered in the Western Canada Pea Co-Op in the years 1990, 1991 and 1992, where it was found to be uniform and stable (3).
- c) Recurring variants have not been observed.



Variety: Carneval (SV E 36121) Pea

EXHIBIT B Revised November 5, 1997

Statement of Distinctness:

Of varieties know to us, Carneval is most similar to the variety, "Canis". Carneval can be distinguished from Canis as evidenced by the attached statistical comparisons with respect to the following three traits. Carneval has significantly larger seeds, shorter and narrower stipules than Canis.

as per tur of 00 1-9-2000 1-9-2000 84-2000

Characteristic (see ANOVA tables)	Year	Reps	Carneval (SV E 36121)	Range	Canis	Range
Thousand Grain Weight (grams)	1996 1997	5 10	246.42 229.82	(230 - 265) (218 - 240)	271.08 256.04	(262 - 281) (246 - 263)
Stipule Length (cm)	1996 1997	10 20	4.44 4.85	(3.8 - 5.1) (2.6 - 6.7)		(3.9 - 5.5) (4.4 - 6.5)
Stipule Width (cm)	1996 1997	10 20	2.13 2.28	(1.6 - 3.0) (1.4 - 3.0)		1.9 - 2.8) 1.6 - 3.2)





Syalof Welbull Ltd.

Facsimile Transmission

2 - 411 Downey Road Tel: (306) 477-5230 Saskatoon, SK

Fax: (306) 477-5239 www.swseed.ca

CANADA S7N 4L8 E-mail: howard.love@swseed.se

July 7, 2000

Page 1 of 1

TO:

PVP Office

ATT:

Bob Schelgal

FROM:

Howard K. Love

RE:

Modified Wording of Distinctness Carneval 9600331

Dear Bob:

Please make the change as discussed. The sentence should read in Exhibit B, Statement of Distinctness: "Carneval has significantly smaller and lighter seeds,"

AGROBASE/4

ANALYSIS OF VARIANCE

PROC ACB

PROC ACB 11/10/97 CARNEVAL + CANIS 96/97 TGW ANOVA TABLE

Dependent variable: TGW

df	SS	MS	F-value	Pr¢ F
29	8355.930			
1	4953.675	4953.675	41.25	0.0000
4	519.815	129.954	1.08	0.3880
24	2882.440	120.102		
	29 1 4	29 8355.930 1 4953.675 4 519.815	29 8355.930 1 4953.675 4953.675 4 519.815 129.954	29 8355.930 1 4953.675 4953.675 41.25 4 519.815 129.954 1.08

Grand mean = 248.203 R-squared = 0.6550 C.V. = 4.42%

LSD for ENTRY = 6.8464 S.E.D. = 4.0017

t (1-sided a=0.050, 24 df) = 1.7109 MSE = 120.10167

ENTRY

Averages

Level --- Y --- Rank

2 261.05 1 CANIS

1 235.35 2 CARNEVAL

File: F:®AGB4®CARN2.DBF Memory: 302912 bytes free Time: 10:11:28

PROC ACB

11/06/97 CARNEVAL + CANIS 1996 TGW ANOVA TABLE

Dependent variable: TGW

Source	df	SS	MS	F-value	Pr¢ F
Total	9	2606.245			
ENTRY	1	1520.289	1520.289	11.06	0.0301
BLOC	4	536.180	134.045	0.98	0.5095
Residual	4	549.776	137.444		

Grand mean = 258.750 R-squared = 0.7891 C.V. = 4.53%

LSD for ENTRY = 15.8070 S.E.D. = 7.4147

t (1-sided a=0.050, 4 df) = 2.1319 MSE = 137.44400

ENTRY

Averages

Level --- Y --- Rank

2 271.08 1 CANIS

246.42 2 CARNEVAL

File: F:®AGB4®CARN962.DBF Memory: 302912 bytes free Time: 14:31:41

PROC ACB

PROC ACB 11/10/97 CARNEVAL + CANIS 1997 TGW ANOVA TABLE

Dependent variable: TGW

Source	df	SS	MS	F-value	Pr¢ F
Total	19	4081.202			
ENTRY	1	3437.442	3437.442	100.59	0.0000
BLOC	4	165.357	41.339	1.21	0.3505
Residual	14	478.403	34.172		

Grand mean = 242.930 R-squared = 0.8828 C.V. = 2.41%

LSD for ENTRY = 0.0000 S.E.D. = 2.6143

t (1-sided a=0.050, 14 df) = 0.0000 MSE = 34.17164

ENTRY

Averages

Level --- Y --- Rank

1 256.04 1 CANIS

2 229.82 2 CARNEVAL

File: F:@AGB4@CARN972.DBF Memory: 302912 bytes free Time: 10:02:57

PROC ACB

AGROBASE/4 ANALYSIS OF VARIANCE

11/06/97

CARNEVAL + CANIS 97/96 STIPULE LENGTH (CM) ANOVA TABLE

Dependent variable: STIP_LTH

Source	df	SS	MS	F-value	Pr¢ F
Total	59	49.737			
ENTRY	1	5.281	5.281	6.26	0.0151
BLOC	9	3.107	0.345	0.41	0.9241
Residual	49	41.349	0.844		

Grand mean = 5.007 R-squared = 0.1686 C.V. = 18.35%

LSD for ENTRY = 0.3977 S.E.D. = 0.2372

t (1-sided a=0.050, 49 df) = 1.6766 MSE = 0.84386

ENTRY

Averages

Level --- Y --- Rank

2 5.30 1 CANIS

4.71 2 CARNEVAL

File: F:®AGB4®CARN1.DBF Memory: 302912 bytes free Time: 09:56:50

PROC ACB

11/06/97

CARNEVAL + CANIS 1997 STIPULE LENGTH (CM)ANOVA TABLE

Dependent variable: STIP_LTH

Source	df	SS	MS	F-value	Pr¢ F
Total	39	38.460			
ENTRY	1	6.480	6.480	6.64	0.0147
BLOC	9	3.672	0.408	0.42	0.9148
Residual	29	28.307	0.976		

Grand mean = 5.248 R-squared = 0.2640 C.V. = 18.83%

LSD for ENTRY = 0.5309 S.E.D. = 0.3124

t (1-sided a=0.050, 29 df) = 1.6991 MSE = 0.97611

Averages

Level --- Y --- Rank

2 5.65 1 CANIS

1 4.85 2 CARNEVAL

File: F:@AGB4@CARN971.DBF Memory: 302912 bytes free Time: 09:57:52

PROC ACB

11/06/97 CARNEVAL + CANIS STIPULE LENGTH (CM) ANOVA TABLE 1996

Dependent variable: STIP_LTH

Source	df	SS	MS	F-value	Pr¢ F
Total	19	4.318			
ENTRY	1	0.145	0.145	0.54	0.5142
BLOC	9	1.773	0.197	0.74	0.6710
Residual	9	2.401	0.267		

Grand mean = 4.525 R-squared = 0.4440 C.V. = 11.41%

LSD for ENTRY = 0.4234 S.E.D. = 0.2310

t (1-sided a=0.050, 9 df) = 1.8331 MSE = 0.26672

ENTRY

Averages

Level --- Y --- Rank

2 4.61 1 CANIS

4.44 2 CARNEVAL

File: F:®AGB4®CARN961.DBF Memory: 302912 bytes free Time: 13:02:29

PROC ACB

11/06/97 CARNEVAL + CANIS 97/96 STIPULE WIDTH (CM) ANOVA TABLE

Dependent variable: STIP_WDTH

Source	df	SS	MS	F-value	Pr¢ F
Total	59	10.777			
ENTRY	1	0.662	0.662	3.66	0.0585
BLOC	9	1.262	0.140	0.78	0.6402
Residual	49	8.854	0.181		
				Contract and an experience of the Contract of	

Grand mean = 2.335 R-squared = 0.1784 C.V. = 18.20%

LSD for ENTRY = 0.1840 S.E.D. = 0.1098

t (1-sided a=0.050, 49 df) = 1.6766 MSE = 0.18068

ENTRY

Averages

Level --- Y --- Rank

2 2.44 1 CANIS

2.23 2 CARNEVAL

File: F:®AGB4®CARN1.DBF Memory: 302912 bytes free Time: 10:46:29

PROC ACB

11/06/97 CARNEVAL + CANIS 1997 STIPULE WIDTH (CM) ANOVA TABLE

Dependent variable: STIP_WDTH

Source	df	SS	MS	F-value	Pr¢ F
Total	39	8.108			
ENTRY	1	0.306	0.306	1.53	0.2247
BLOC	9	1.980	0.220	1.10	0.3958
Residual	29	5.821	0.201		

Grand mean = 2.368 R-squared = 0.2820 C.V. = 18.92%

LSD for ENTRY = 0.2407 S.E.D. = 0.1417

t (1-sided a=0.050, 29 df) = 1.6991 MSE = 0.20073

ENTRY

Averages

Level --- Y --- Rank

2 2.46 1 CANIS

2.28 2 CARNEVAL

File: F:®AGB4®CARN971.DBF Memory: 302912 bytes free Time: 11:24:10

PROC ACB

AGROBASE/4 ANALYSIS OF VARIANCE

11/06/97

CARNEVAL + CANIS 1996 STIPULE WIDTH (CM) ANOVA TABLE

Dependent variable: STIP_WDTH

Source	df	SS	MS	F-value	Pr¢ F
Total	19	2.542			
ENTRY	1	0.392	0.392	3.93	0.0765
BLOC	9	1.252	0.139	1.39	0.3138
Residual	9	0.898	0.100		

Grand mean = 2.270 R-squared = 0.6467 C.V. = 13.92%

LSD for ENTRY = 0.2590 S.E.D. = 0.1413

t (1-sided a=0.050, 9 df) = 1.8331 MSE = 0.09978

ENTRY

Averages

Level --- Y --- Rank

2 2.41 1 CANIS

2.13 2 CARNEVAL

File: F:@AGB4@CARN961.DBF Memory: 302912 bytes free Time: 11:25:03

FORM APPROVED: OMB NO. 0581-0055

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION
NATIONAL AGRICULTURAL LIBRARY
BELTSVILLE, MARYLAND 20705
OBJECTIVE DESCRIPTION OF VARIETY

EXHIBIT C

Svalöf Weibull AB	VARIETY NAME OR TEMPORARY DESIGNATION
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	CARNEVAL
S-268 81	FOR OFFICIAL USE ONLY
Svalöv, SWEDEN	PVPO NUMBER
Place the appropriate number that describes the varietal character in the bo	1600231
Place a zero in first box (c.s. 0 8 9 or 0 9) when number is either 5	99 or less or 9 or less.
1. TYPE:	March 19 St. Land
2 1- GARDEN 2- FIELD 3- EDIBLE PODDED	
2. MATURITY:	
21 Node number of first bloom: 1 0 6 No. of days to	processing Heat Units
No. of days learlier than	? = THOMAS LAXTON WR 3 = LITTLE MARVEL
No of days Later than	DERMAN WR 6 = AUSTRIAN WINTER
3. PLANT HEIGHT:	
7 5 CM. HIGH	
Cm. Shorter than	THOMAS LAXTON WR 3 = LITTLE MARVEL
	DERMAN WR 6 = AUSTRIAN WINTER
4. VINE:	
2 Habit: 1 = DETERMINATE 2 = INDETERMINATE Stock	1 * SLIM (Alaska) 3 = HEAVY (Alderman) kiness: 2 = MEDIUM (Thomas Laxton WR)
Branching: 1 = NONE (Alaska) 2 - 1 - 2 BRANCHES (Little Marvel)	3 = MORE THAN 2 BRANCHES (Dwarf Gray Sugar)
1 Internodes: 1 = STRAIGHT 2 = ZIG ZAG 2 4 N	UMBER OF NODES
LEAFLETS:	
4 Color 4 = OTHER (Specify) Semi-leafless, modified to	Jaxton WR) 3 = DARK GREEN (Alderman) tendrils
Wax. 1 = NONE 2 = LIGHT 3 = MEDIUM 1 = N	OT MARBLED (Alaska)
Number of leaflet pairs: 1 = NOT PAIRED 2 = ONE 3 = TWO	A THREE OR MODE
STIPULES:	4 * THREE OR MORE
2 1 = LACKING 2 = PRESENT 2 1 = N	OT CLASPING 2 = CLASPING
2 1 = NOT MARBLED 2 = MARBLED Size (Compared with leaflets): 2 = SAME
2 Color (Compared with leaflets): 1 = LIGHTER 2 = SAME 3 = D.	ni-leafless 3-LANGER ARKER
FLOWER COLOR:	

			-	_	
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	10				
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8. PODS:			1600231
	IGHT 2 = SLIGHTLY CURVED	2 End: 1 - POINTED (Alderma	n) 2 - BLUNT (Alaska)
2 Color: 1 = LIGHT 4 = OTHE	T GREEN (Alaska WR) 2 = MEDIL R (Specify)	JM GREEN 3 = DARK GREEN (Aldern	
2 Surface: 1 = SM	OOTH 2 = ROUGH	2 Surface: 1 = SHINY 2	- DULL
2 8 8 5 = DO	IGLE 2 = DOUBLE 3 = SIN UBLE & TRIPLE 6 = TRIPLE	GLE AND DOUBLE 4 = SINGLE, DO	JBLE, & TRIPEE
7 CM. LENGTH		1 2 MM. WIDTH (Between sutures)	7 NO. SEEDS PER POD
9. SEEDS (95 100 Tenderome	ater):		
[1] Color: 1 =	LIGHT GREEN 2 = GREEN 3	= DARK GREEN 4 = OTHER (Specify	1
Serve: 1%	3 4	5 B 7 E	AVERAGE
SEEDS (Dry, Mature):			
4 Shape: 1 - FLAT	TTENED 2 = ANGULAR 3 =	OVAL 4 - ROUNDED	
1 - SMOO 3 = WRIN	OTH 2 - DIMPLED	Surfece: 1 = SHINY 2	= DULL
1 Color Pattern:	1 - MONOCOLOR 2 = MOTTLE	O 3 = STRIPED 4 = DOTTED	
	1 = CREAMY-WHITE 2 = CREAM 5 = DARK GREEN 6 = BLUE-GR 0 - GRAY 11 = BLACK	M & GREEN 3 = LIGHT GREEN 4 = REEN 7 = YELLOW 8 = BROWN	MEDIUM GREEN 9 = RED
1 Hilum Floor Color:	1 - WHITE 2 - TAN 3 BLACK	2 Cotyledon Color: 1 = GREEN	2 = YELLOW 3 + ORANG
2 3 GRAMS PER 100 S	SEEDS		
10. DISEASE: (0 = Not Tested;	1 = Susceptible: 2 = Resistant)		
FUSARIUM WILT		NEAR WILT	
1 ASCOCHYTA BLIGHT	r	NEAR-WILT POWDERY MILDEW	BACTERIAL BLIGHT
MOSAIC		PEA ENATION MOSAIC	YELLOW BEAN MOSAIC
OTHER (Suecify)			
11. INSECT: (O= Not Tested; 1	Susceptible; 2 = Resistant)		
APHIDS		OTHER (Specify)	
12. INDICATE WHICH VARIET	Y MOST CLOSELY RESEMBLES TH	IAT SUBMITTED	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leatiness		Fresh Seed Color	MANUE OF TRANSPORT
Leul Color		Mature Seed Color	
Part Color		Seed Shape	
COMMENTS:		Plant Habit	

APPENDIX OBJECTIVE DESCRIPTION OF VARIETY

PEA (Pisum sativum)

Canis Size: 1=Small 2=Medium 3=Large Please provide example varieties of similar specified size or check varieties and stipule size. Variety Name Stipule Size Variety Name Stipule Size Variety Name Stipule Size Variety Name Stipule Size		Temporary Designat	ion: Infor	mation transf	ferred from e	xhibit C
Leaflet Type: 1=Leafless 2=Semi 3=Normal STIPULE CHARACTERISTICS: Color: 1=Light-Green 2=Medium-Green 3=Dark-Green 4=Blue-Green 5=Yellow-Green 6=Other Please provide example varieties of similar specified color or check varieties and stipule color. Variety Name Stipule Color Canis 2 Size: 1=Small 2=Medium 3=Large Please provide example varieties of similar specified size or check varieties and stipule size. Variety Name Stipule Size Variety Name Stipule Size			for 'c	anis supplied	by applicant	Rus 7-10-98
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Canis Size: 1=Small 2=Medium 3=Large Please provide example varieties of similar specified size or check varieties and stipule size. Variety Name Stipule Size	Please provid	e example varieties of si	milar specified colo	or or check varieties a	nd stipule color.	
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Please provide example varieties of similar specified size or check varieties and stipule size. Variety Name Stipule Size Variety Name Stipule Size Variety Name Stipule Size	Canis	2				
	Variety Name	Stipule Size	Variety Name	Stipule Size	Variety Name	Stipule Size
Variety Name Stipule Size Variety Name Stipule Size Variety Name Stipule Size Variety Name Stipule Size						
Canis 2	Variety Name	Stipule Size	Variety Name	Stipule Size	Variety Name	Stipule Size
OTHER CHARACTERISTICS: Describe other characteristics that may aid in identification.	Canis	2				
	OTHER CHARA	CTERISTICS: Desc	ribe other characte	eristics that may aid in	identification.	

Final Denomination:

'Carneval'

EXHIBIT D

Application number: 93-186 Application date:

26-05-93

Applicant: Agent in Canada: Svalöf Weibull AB, Svalöv, Sweden

Bonis & Company Ltd., Lindsay, Ontario

Variety used for comparison:

'Carneval' was compared to 'Tara' and 'Radley' as they are the most similar varieties

Description: (see comparison table on page)

Summary:

'Carneval' has vines of medium length, spherical seeds with yellow cotyledons and no leaflets.

'Carneval' is a field pea variety with a light green plant colour and no stem fasciation. It has slightly fewer nodes (including the two scale nodes and the first flowering node) than 'Tara' and 'Radley' and a medium vine length which is slightly longer than 'Radley' and slightly shorter than 'Tara'. Leaflets are absent on 'Carneval' and 'Radley' but are present on 'Tara'. Leaf and stipule waxiness is present in 'Carneval'. It has normal development of the stipules which are shorter and narrower than those of 'Radley'. 'Carneval' has sparse stipule flecking whereas 'Tara' has medium dense flecking. 'Carneval' flowers at the same time as 'Tara' and 'Radley' and produces one to two flowers per node with white coloured standards. The shape of the standard base is arched for 'Carneval' and level for 'Tara' and 'Radley'. 'Carneval' has a light green pod of medium width which is slightly longer than 'Tara' and slightly shorter than 'Radley'. Pod parchment is entirely present. It has a weak concave curvature with a blunt end whereas 'Radley' has a pointed end. The pod has many ovules which produce pale green immature seed. 'Carneval' matures at the same time as 'Radley' and slightly earlier than 'Tara'. 'Carneval' produces larger spherical seeds than 'Tara' and 'Radley' without a black colour of hilum with a simple shape to the starch grain. The cotyledons show no wrinkling and are yellow in colour whereas those of 'Radley' are green. 'Carneval' is susceptible to asochyta leaf and pod spot (Asochyta pisi) and susceptible to tolerant of powdery mildew (Erysiphe polygoni), whereas 'Tara' is resistant to powdery mildew. It has average cooking quality and a protein content lower than 'Radley'.

Origin and Breeding:

The variety was bred at Svalöf Weibull AB in Sweden. The original cross (Bohatyr x Rigel) was done in 1981. The pedigree method was used to develop 'Richmond' and it originates from a single F4 plant selection.

Tests and Trials:

The test and trials results were taken from the Prairie Registration Recommendation Committee on Grain (PRRCG) and were conducted in accordance with PRRCG protocols over a three year period (1990 to 1992).

REPRODUCE LOCALLY. Include form number and date on all reproductions. U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to	le in accordance with the Privacy Acc erwork Reduction Act (PRA) of 1995 of determine if a plant variety protect c. 2421). Information is held confiden
1. NAME OF APPLICANT(S) Svalöf Weibull AB	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME CARNEVAL
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) S-268 81 Svalöv, SWEDEN	5. TELEPHONE (include area code) 705-324-3293 7. PVPO NUMBER	6. FAX (include area code) 705-324-2550
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate		YES NO
9. Is the applicant (individual or company) a U.S. national or U.S. based comp	any?	
If no, give name of country SWEDEN		YES XX NO
If no, give name of country		YES NO
If no, give name of country SWEDEN 10. Is the applicant the original breeder? If no, please answer the following: SValor Weibull is the original breeder a. If original rights to variety were owned by individual(s):	of country	
If no, give name of country SWEDEN 10. Is the applicant the original breeder? If no, please answer the following: SValor Weibull is the original breeder a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of the original rights to variety were owned by a company:	country	YES NO
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